

BLACKHAWK

Welded Wrenches

SUPPLEMENT TO CATALOG No. 3
SHOWING SPECIAL ASSORTMENT OF

Quick Detachable Handles
Sockets, Rim Wrenches
and New Wrenches
For Fords



Manufactured By
AMERICAN GRINDER MFG. CO.
MILWAUKEE, WISCONSIN

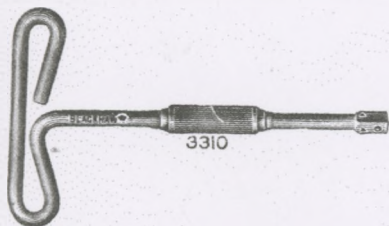


Exclusive Sales Representatives
G. N. & F. W. IONAS

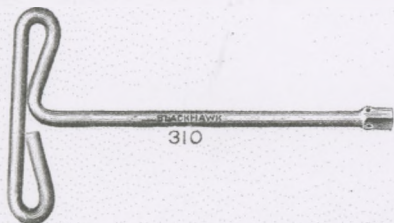
Q. D. HANDLES AND SOCKETS

All BLACKHAWK Quick Detachable handles can be used with all of our sockets, combination sets or parts in No. 50 Stock Cabinet (see page 5 in Catalog No. 3 for Stock Cabinet). They are also interchangeable with all makes of sockets having the $\frac{1}{2}$ " standard opening. This gives BLACKHAWK Quick Detachable wrenches the greatest possible range of utility and makes them easily adapted to the needs of everyone using wrenches.

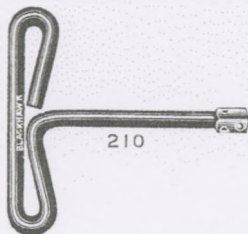
BLACKHAWK Q. D. Handles are made of $\frac{1}{2}$ " stock—fully guaranteed. They are made to stand up under rough treatment and give the kind of service you expect from fine tools.



No. 3310—12" Q. D. Tee Handle
with speed grip\$1.10



No. 310—12" Q. D. Tee Handle..\$0.80



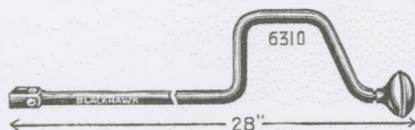
No. 210—6" Q. D. Tee Handle..\$0.75



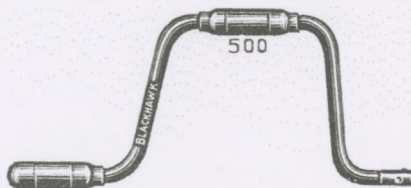
No. 110—7" Q. D. Offset Handle..\$0.70



No. 610—20" Q. D. Speeder
Handle\$1.25



No. 6310—28" Q. D. Speeder
Handle\$1.35



No. 500—Q. D. Brace Handle..\$1.25

(Standard Package Contains 10 Handles)

BLACKHAWK

INTERCHANGEABLE

Q. D. HANDLES AND SOCKETS

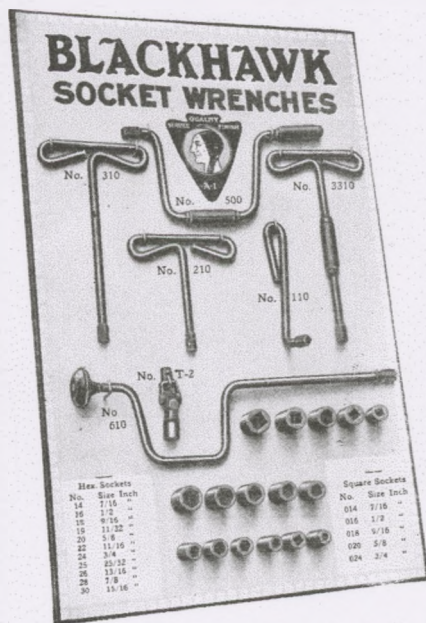
This Special Assortment and Display Board are Business Getters

This special assortment was made up to meet the demand for a large range of wrenches. The handles and sockets are instantly interchangeable and 192 combinations can be made up from the set.

The display board has handy compartments at the back for holding sockets, each compartment plainly marked with the sizes it holds.

All Quick Detachable handles are made from the finest material obtainable for the purpose and are interchangeable with all makes of sockets having the standard $\frac{1}{2}$ -inch opening. Sockets are machined from steel, heat treated and are rust-proof. A definite guarantee accompanies each tool.

This board and assortment have met with instant approval among jobbers and dealers. You will find them very fine sales stimulaters.



Q D Handles

		Each
6 each	No. 3310, 12-inch Tee with Center Handle	\$1.10
6 each	No. 310, 12-inch Tee without Center Handle	.80
6 each	No. 210, 6-inch Tee Handles	.75
6 each	No. 110, Offset Handle	.70
6 each	No. 500, Rim Brace	1.25
6 each	No. 610, Speeder Handle	1.25

36 Q. D. Handles

Hexagon Sockets

		Each
5 each	No. 14, 7/16-inch	\$0.30
5 each	No. 16, 1 2 -inch	.30
10 each	No. 18, 9/16-inch	.30
5 each	No. 19, 19/32-inch	.35
10 each	No. 20, 5/8 -inch	.35
5 each	No. 22, 11/16-inch	.35
5 each	No. 24, 3/4 -inch	.35
5 each	No. 25, 25/32-inch	.35
5 each	No. 26, 13/16-inch	.45
5 each	No. 28, 7/8 -inch	.45
5 each	No. 30, 15/16-inch	.45

65 Hexagon Sockets

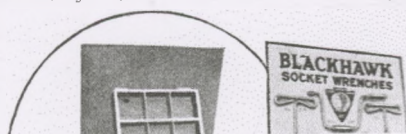
Square Sockets

		Each
5 each	No. 014, 7/16-inch	\$0.35
5 each	No. 016, 1 2 -inch	.35
5 each	No. 018, 9/16-inch	.35
5 each	No. 020, 5/8 -inch	.45
5 each	No. 024, 3/4 -inch	.45

25 Square Sockets

3	T2 Universal Joints	\$1.30
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No. 200—Board complete with 90 sockets—36 handles and 3 universal joints as listed above, each \$7.50



BLACKHAWK

INTERCHANGEABLE

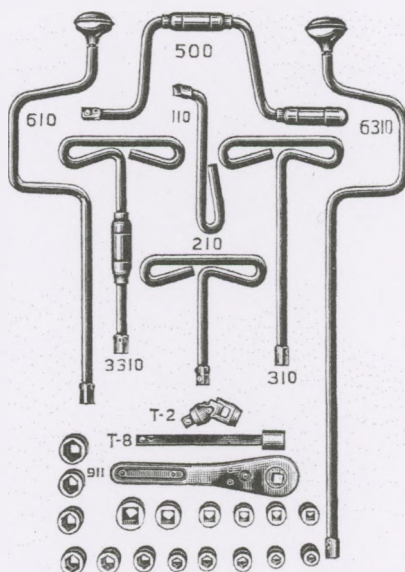
Q. D. HANDLES AND SOCKETS

GENERAL SERVICE SET

Q. D. No. 27

This set was made up after a thorough investigation had been made among garages, service stations and repair shops to find out exactly what was needed. Mechanics declare this set to be the most practical and complete of its kind ever made. More than 275 wrenches and combinations can be made from the Q. D. handles and sockets in this assortment.

Q. D. Handles are Made of $\frac{1}{2}$ " Stock And Are Interchangeable With All Makes of Sockets Having the Standard $\frac{1}{2}$ " Opening.



This Complete Set of 27 Tools Is Pack-
ed In A Substantial
Box Ready For
Shipment.

Price on
Complete Set

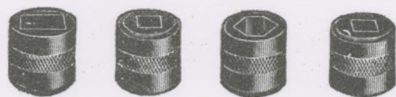
\$18.50

THIS SET CONTAINS THE FOLLOWING:

1 No. 500
Rim Brace Handle
1 No. 6310

1 No. 210
6-inch Tee Handle
1 No. 110


11 Hexagon Sockets
Sizes 7/16-inch, 1/2-inch, 9/16-
inch 10/32-inch 5/8-inch 11/16-



MEET EVERY REQUIREMENT FOR STRENGTH AND SERVICE

No effort has been spared to make sure that BLACKHAWK Steel Sockets match the very highest standards of quality. Each socket is machined from the solid bar, broached 1/64" oversize to insure a perfect fit, heat treated to prevent rounding out and finished with a rust proof coating. Every socket is guaranteed to give satisfactory service.

SIZES BELOW ARE BOLT OR SCREW SIZES

TABLE OF HEXAGON SOCKETS									
NO.	SOCKET SIZES	U.S.S. NUTS SIZE BOLT	HEX. HEAD CAP. SCREWS U. S. STD.	S.A.E. STD. NUTS & CAP. SCREWS	A. L. A. N.	INFRS. STD. BOLT HEAD	HEX. HEAD SET SCREWS	COACH SCREWS	
14	7-16		1-4	1-4			7-16		
16	1-2	1-4	5-16	5-16	5-16		1-2		
18	9-16		3-8	3-8	3-8	3-8	9-16		
19	19-32	5-16						3-8	
20	5-8		7-16	7-16			5-8		
22	11-16	3-8			7-16				
24	3-4		1-2	1-2	1-2	1-2	3-4	1-2	
25	25-32	7-16							
26	13-16		9-16	9-16	9-16		7-8		
28	7-8	1-2	5-8	5-8	5-8	5-8		5-8	
30	15-16								
31	31-32	9-16							
32			3-4	11-16	11-16		1		
34	1-1-16	5-8		3-4	3-4	3-4			
36	1-1-8		7-8	7-8	7-8		1-1-8	3-4	
40	1-1-4	3-4					1-1-4		
TABLE OF SQUARE SOCKETS									
NO.	SIZE OPENING	SQ. HEAD SET SCREW	SQ. HEAD U. S. S. CAP. SCREWS	SQ. HEAD U. S. S. NUT BOLT SIZE	 GUARANTEED BROACHED STEEL SOCKETS				
014	14-32	7-16	5-16						
016	1-2	1-2	3-8	1-4					
018	9-16	9-16	7-16						
019	19-32			5-16					
020	5-8	5-8	1-2						
022	11-16		9-16	3-8					
024	3-4	3-4	5-8						
025	25-32			7-16					
028	7-8	7-8	3-4	1-2					
034	1-1-16			5-8					
041	1-9-32	1-1-4	1	3-4					

HEXAGON

No.	Socket Size	Price
14	7/16-inch	\$0.30
16	1/2 -inch	.30
18	9/16-inch	.30
19	19/32-inch	.35
20	5/8 -inch	.35
22	11/16-inch	.35
24	3/4 -inch	.35
25	25/32-inch	.35
26	13/16-inch	.45
28	7/8 -inch	.45
30	15/16-inch	.45
31	31/32-inch	.55
32	1 -inch	.55
34	1-1/16-inch	.55
36	1-1/8 -inch	.55
40	1-1/4 -inch	.55

SQUARE

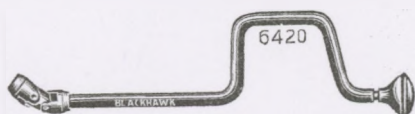
No.	Socket Size	Price
014	7/16-inch	\$0.35
016	1/2 -inch	.35
018	9/16-inch	.35
019	19/32-inch	.35
020	5/8 -inch	.45
022	11/16-inch	.45
024	3/4 -inch	.45
025	25/32-inch	.45
028	7/8 -inch	.45
034	1-1/16-inch	.60
041	1-9/32-inch	.60

BLACKHAWK

W E L D E D W R E N C H E S

SPECIALS  FOR FORDS

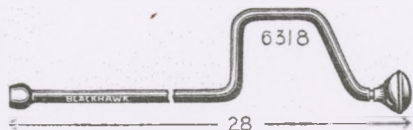
These models were designed for special jobs on the Ford car. Various places that are inaccessible with ordinary wrenches are easily reached with these special BLACKHAWKS.



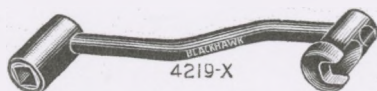
No. 6420—Connecting Rod Wrench

This wrench has proved itself to be the most efficient wrench ever designed for this job. To use this wrench properly, pull the fourth piston to the top of the cylinder. The brace comes below the radius rods. The universal joint makes operation easy. No danger of slippage or injury to the hands. Socket size $\frac{5}{8}$ " extra heavy. Handle made of $\frac{1}{2}$ " stock.

Price.....\$3.00



No. 6318 Long Shank Speed Wrench



No. 4219-X—Main Bearing Wrench

This wrench fits all main bearing bolt heads and will reach the two front main bearing bolts without removing the motor from the chassis. Socket size $\frac{9}{16}$ " square—special design socket at other end for connecting rod clamp screw.

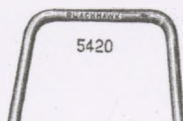
Price.....\$1.30



No. 4422—Heavy Duty Fly Wheel Cap Screw Wrench

Special design of socket gives advantages of both socket and open end type wrenches. The socket has plenty of clearance, yet is very strong. Cannot slip off work. Socket size $\frac{11}{16}$ ". Handle is made of $\frac{9}{16}$ " stock.

Price.....\$1.20



THIS SPECIAL DISPLAY BOARD WILL INCREASE YOUR RIM WRENCH SALES

With this assortment of BLACKHAWK Welded Rim Wrenches you can supply all the demands for wrenches to fit any make or size rim. When placed in a prominent position this display board acts as a very profitable silent salesman for the jobber, tire dealer, accessory dealer or service station. The turnover on this outfit is rapid.

All BLACKHAWK Welded Rim Wrenches have solid steel swivel handles and are made of $\frac{1}{2}$ " stock. By looking for the name BLACKHAWK stamped on every wrench you will make sure of genuine BLACKHAWK quality and the BLACKHAWK "Fair Play Guarantee".

THIS DISPLAY OUTFIT INCLUDES

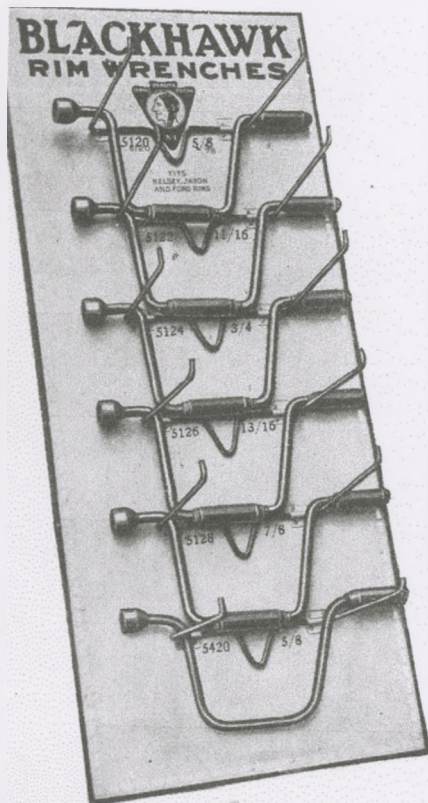
- 6 each No. 5120, 5/8" Rim Wrenches to fit Kelsey, Jaxon and Ford rims.....\$1.25
- 6 each No. 5122, 11/16" Rim Wrenches to fit Firestone and Goodrich rims..... 1.25
- 6 each No. 5124, 3/4" Rim Wrenches to fit Stanweld, Jaxon, Detroit, Baker and Goodyear rims 1.25
- 6 each No. 5126, 13/16" Rim Wrenches to fit Stanweld Nos. 40 and 60 and United rims 1.25
- 6 each No. 5128, 7/8" Rim Wrenches to fit Giant Pneumatic rims..... 1.25
- 6 each No. 5420, 5/8" Rim Wrenches, special to fit Ford Standard demountable rims.. 1.00

36 Tools

No. 5100

Rim Wrench Display Board
Complete

\$43.50



BLACKHAWK

Welded Wrenches



Greatest Strength at the Point of Greatest Strain

Every mechanic knows the first place an ordinary socket wrench breaks is at the union of the socket and the shaft. That's why we **WELD** the socket to the shaft in all **BLACKHAWK Wrenches**. This makes the joint **THE STRONGEST PART OF THE WRENCH**---the part that must stand the greatest strain.

In this way we have solved the biggest problem
in the manufacture of socket wrenches.

CONTENTS OF NO. 200 BLACKHAWK Q. D. DISPLAY SET

- ✓ 3—T-2 Universal Joint
- ✓ 6—110 Offset Handle
- ✓ 6—210 6" Tee Handle
- ✓ 6—310 12" Tee without center handle
- ✓ 6—500 Rim Brace
- ✓ 6—610 Speeder Handle
- ✓ 6—3310 12" Tee with center handle

- ✓ 5—14 Socket, size 7/16" hex.
- ✓ 5—16 Socket, size 1/2" hex.
- ✓ 10—18 Socket, size 9/16" hex. ✓
- ✓ 5—19 Socket, size 19/32" hex.
- ✓ 10—20 Socket, size 5/8 " hex.
- ✓ 5—22 Socket, size 11/16" hex.
- ✓ 5—24 Socket, size 3/4" hex.
- ✓ 5—25 Socket, size 25/32" hex.
- ✓ 5—26 Socket, size 13/16" hex.
- ✓ 5—28 Socket, size 7/8" hex.
- ✓ 5—30 Socket, size 15/16" hex.
- ✓ 5—014 Socket, size 7/16" square
- ✓ 5—016 Socket, size 1/2" square
- ✓ 5—018 Socket, size 9/16" square
- ✓ 5—020 Socket, size 5/8" square
- ✓ 5—024 Socket, size 3/4" square
- ✓ 1—Display Board

Packed in heavy wood box.

AMERICAN GRINDER MFG. CO

Milwaukee, Wis.

Inspector.....
name

Mike Brown
Packer.....
name

Date *10/2* 192*2*